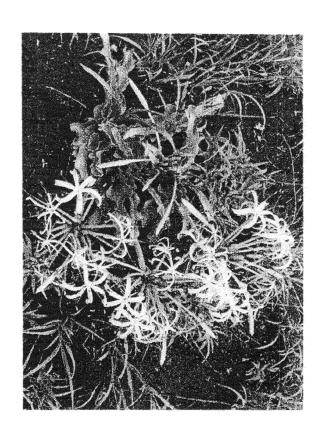
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RCHAEOLOGICAL IMPACT ASSESSMENT PHASE 1

Vodacom Mast McKechnie Giyani NORTHERN PROVINCE



Hester Roodt November 1999





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Report on Workshop on Standards for the Assessment of Significance and Research Priorities for Confract Archaeology, SA3 (Southern African Association of Archaeologists) Biennial Conference, University of Venda, 10 July 1998 Extracts from the National Monuments Act (No 28 of 1969, as amended in 1986) that are relevant to Archaeological Sites.

In view of the above, it is recommended that the mast should not be erected on this site, but that another, less sensitive location be found for it.

An alternative would be the following:

- a social impact assessment done by a professionally qualified social scientist such as a socio-cultural anthropologist; a Phase 2 Archaeological impact Assessment be undertaken. This would however entail detailed mapping of structures e.g terraces, grave/s(?) and middens as well as extensive excavations and analyses (e.g C¹⁴ dating, bone analysis and identification) of archaeological finds.

recommendations. The task was performed on November 21, 1999. The aim was to undertake a Phase 1 Archaeological Impact Assessment of a hilltop and access route designated for the proposed Vodacom Mast McKechnie, approximately 20 km north of Giyani, where the erection of a terms of archaeological/historical sites and features and to mast has been proposed, to assess the impact of the proposed project in make

METHOD

A survey of the entire area demarcated for development was done on foot by two professional archaeologists. Archaeological features were photographed with a Kodak Digital DC120 camera.

who occupied the koppie. No test pits were dug. A collection of aichaeological finds were made in order to identify the cultural affiliation of the group

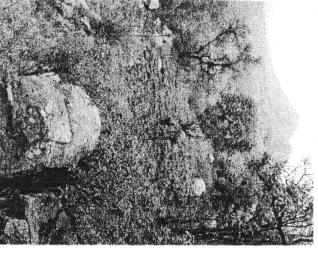
he proposed site is 20m x 20m and it, as well as the access route was clearly indicated by yellow paint beacon is just south from it, on Tshivhulana, which is 653m above sea-level. 3700 E It lies on the only kappie - with a flat summit - in a rather flat area The nearest trigonometric

It present the area is being utilized by the local people as grazing for their cattle

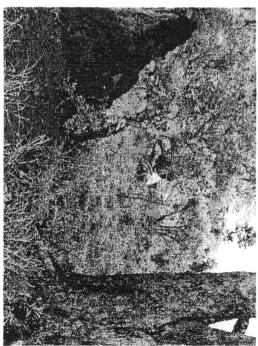


The southwestern slope. The arrows indicate the retaining stone walls of the terrace.

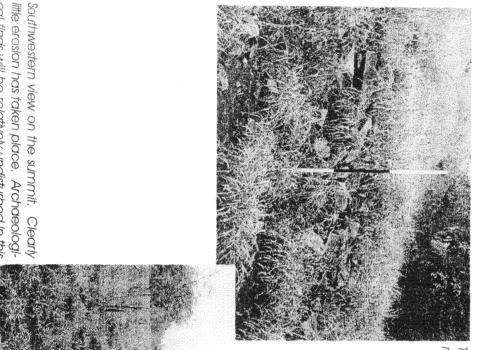
ever, and lipped) pottery sherds, and more summit, it was found to be literally eroded parts on the edges of the logical deposits in this area. little effected by erosion, one can area to be reconnoitred was tuyère pieces. concentrations of iron slag as well as covered in diagnostic nace or forge through which air is pipes that are inserted into the furarea, as well as the rest of the unproposed location of the mast. races were noticed. On top, the first as well as several man-made terlowed right around the entire summit expect to find undisturbed archaeoforced with bellows). As this part was iron slag and some pottery sherds as well as some eroded part of the summit, rendered the way up the slopes, pottery sherds Already en route, from the bottom all noon investigation tuyere pieces (clay This pattern was fol-(decorated 0 TO¥-This Ħ



View onto a terrace on the south side, with another's retaining walls indicated by the arrows. On this lower terrace the remains of a hut floor was discovered.

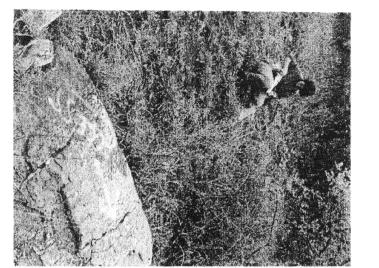


Another terrace on the southern terrace. Retaining walls are indicated by the arrows



The western terrace with the remains of a retaining wall.

little erosion has taken place. Archaeological finds will be relatively undisturbed in this



Iron slag and some tuyère pleces were collected only a few metres from the planned access route.



A large concentration of iron slag and tuyère pieces were discovered in the neck.

Another important feature on the summit is a calm, which lies approximately in the centre. This could be a grave. At this stage it is not possible to positively identify it as such. Only excavations will reveal its true status.



INTERPRETATION & EVALUATION

with declining status. It can be expected that graves of the ruling lineage will be located on top of the the hill, while the terraces, base and surrounding areas of the hill would have been occupied by people The settlement pattern follows that of a prominent chief, who with his wives, would have lived on top of activities on the terrain, as well as the presence of spindle whorls. to the Letaba tradition or style, known to have been made by Venda people from the mid 16th century Le hilltop, stone walls and terracing, indicates an early Venda occupation. site clearly dates to the pre-colonial period as can be deduced from the extensive metal working The choice of the site for settlement The ceramic type belongs

more would probably have been in a metal such as copper and even gold that would have been associated with the east coast trade. This is also indicative of the status of the site. The metalworking remains are probably that of a forging process rather than that of smelting, and further-

the result that little is known of the chronology or cultural identity of the original occupants. generally a Tsonga speaking area. No archaeological research has to date been done in this area, with Oral history clearly indicates that the Venda occupied the region in more remote times, although it is now

Venda heritage, trade goods and trade routes. This is a signifiant heritage resource that is protected by Law, and it may not be destroyed, damaged or attered in any way without a permit issued by the National Monuments Council in terms of the Act (28 of 1969). our opinion that this unique site will yield important scientific and cultural data in respect of early

RECOMMENDATIONS

but that another, less sensitive location be found. In view of the above, it is recommended that the mast should not be erected on this particular site,

An alternative would be the following:

- mapping of structures e.g terraces, grave/s and middens as well as extensive excavations and analyses (e.g C^{14} dating, bone analysis and identification) of archaeological finds; a Phase 2 Archaeological Impact Assessment be undertaken. This would however entail detailed
- a social impact assessment done by a professionally qualified social scientist such as a socio-cultural anthropologist, as this site would probably today still have socio-religious significance

With regard to the possible grave, please refer to Addendum 2: NATIONAL MONUMENTS ACT (NO 28 OF 1969, AS AMENDED IN 1986) 12(2A) (e); as well as Addendum 3 under the heading Iron addenda are applicable. Age/Agriculturalist. With respect to middens, stone walls and other archaeological finds, the same The most relevant text has been emboldened.

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THE LAW

or two years imprisonment, or both. See Addendum 1 for extracts from this act. The National Monuments Act (No. 28 of 1969) protects all palaeontological, archaeological and historical sites and material older than 50 years. It is an offence to destroy, damage, after, remove from Council. A person convicted of an offence in terms of the Act, could be liable for a fine of up to R10000 its original site, or excavate any such site or material without a permit from the National Monuments

religious, social and cultural significance. include archaeological and palaeontological sites, graves and burial sites, buildings and sites of are listed as environments which must be included in an environmental impact assessment report. Management Procedure, Guideline Document 1 identifies certain man-made areas and features of the Environmental Conservation Act (No. 73 of 1989) the Integrated Environmental

ARCHAEOLOGICAL IMPACT ASSESSMENT

undertake survey work important that developers realise that only qualified professional archaeologists should be employed to construction work, it is important to hire an archaeologist well in advance to survey the area. It is on development projects, and to avoid costly delays if a site is discovered during the course of To minimise the impact of development on archaeological sites, and the impact of archaeological sites

The developer is responsible for the costs involved in hiring an archaeologist to investigate the site

Phase 1

the sites have been recorded recommendations and assessment of significance made in the report, a decision can be taken on how the development may proceed. In most cases development will be able to go ahead as planned after archaeologist hired to do the work will submit a phase 1 report. On the basis of the

Phase 2

and research purposes evidence can be stored permanently in a museum where it can be consulted at a later date for record collection of archaeological material. In some cases, mitigation in a Phase 2 programme will be necessary and may involve excavation or The purpose behind mitigation is to sample the site so that the

Phase 3

solutions are possible if the archaeologist is consulted early enough in the planning process and associated rubbish dumps beneath a parking lot to avoid destroying them completely. can confer on the action to be taken. It may be possible to incorporate an Iron Age village into a green bett in a housing scheme, or to modify a high rise building plan by covering rare 18th century foundations 3 programme. If this happens, the archaeologist, the National Monuments Council and the developer More rarely, the site may be so important that it will warrant modification of the development in a Phase

that they have been adequately recorded and sampled. is satisfied that steps have been taken to ensure that the archaeological sites will not be damaged, or Permission for the development to proceed can be given only once the National Monuments Council

for future generations and of avoiding conflict between developers and cultural conservationists. The National Monuments Council must ensure that the historical and cultural heritage of all South Africans projects by selecting options that cause the least amount of inconvenience and delay. is protected. Careful planning can minimise the impact of archaeological surveys on development If this chain of action is followed, we stand a chance of saving something of our archaeological heritage

AS AMENDED IN 1986) THAT ARE RELEVANT TO ARCHAEOLOGICAL SITES EXTRACTS FROM THE NATIONAL MONUMENTS ACT (NO 28 OF 1969,

- 12(2A) No person shall destroy, damage, excavate, alter, remove from its original site or export from the Republic -
- 00 any meteorite or fossil; or
- to have been executed by Bushmen; or any atawing or painting on stone or a petroglyph known or commonly believed
- 0 Republic before the settlement of the Europeans at the Cape; or to have been executed by any other people who inhabited or visited the any drawing or painting on stone or a petroglyph known or commonly believed
- 0 been made, used or erected by people referred to in paragraphs (b) and (c); any implement, ornament or structure known or commonly believed to have
- 0 the anthropological or archaeological contents of GRAVES, caves, rock shelters,
- 3 MIDDENS, shell mounds or other sites used by such people; or any other historical site*, archaeological or palaeontological finds, material or object,

except under the authority of and in accordance with a permit issued under this section

milestone, gravestone, landmark or tell older than 50 years."] An "historical site" is defined as "any identifiable building or part thereof, marker,

Standards for the Assessment of Significance and Research Priorities for Contract Archaeology Report on Workshop on

SA3 (Southern African Association of Archaeologists) Biennial Conference University of Venda, 10 July 1998

Janette Deacon National Monuments Council

rational heritage agencies and research archaeologists. The following factors are relevant. need to be established as a matter of urgency in consultation with CRM practitioners, provincial and make the best of the opportunities, medium-term (3-5 year) research and heritage conservation priorities Opportunities for archaeological contract work will expand in southern Africa in the next few years.

- In South Africa, the Department of Environmental Affairs and Tourism published on 5 September 1997 and the regulations regarding activities identified under Section 21(1) of the Environment Conservation its long-awaited List of Activities which may have a substantial detrimental effect on the environment Act (No. 73 of 1989). These effectively make environmental impact assessments compulsory for the
- The National Heritage Bill, designed to replace the National Monuments Act in South Africa, came innovations, before the Cabinet and Parliament in 1998. It could become law from 1 April 1999. Amongst other palaeontological sites are affected by development but are not protected by other legislation it makes impact assessments compulsory where historical, archaeological and
- Ś In neighbouring African countries, the tempo of contract work is also rising as new legislation and requirements of the World Bank are implemented

which would otherwise be lost. It seems widely accepted that CRM practitioners do mitigation to rescue the research potential of a site The following kinds of sites were identified as being worthy of mitigation:

Stone Age / Hunter Gatherer

- any open air site with bone or other organic material;
- any cave or rock shelter with deposit;
- rock paintings and rock engravings (record context as well as images);
- quarry sites with possibilities for core re-fitting;
- long sequence sites;
- coastal and inland shell middens;
- any sites with Howiesons Poort, Stillbay or Rob berg artefacts;
- human remains or burials;
- fish traps;
- placement of Earlier Stone Age sites in the land-

- scape are they associated with river valleys, water sources or quarries?
- evidence for modernity in Middle Stone Age sites:
- sites with evidence for interaction between Stone Age and Iron Age or colonial people;
- Later Stone Age sites with Bambata pottery;
- pastoral sites, especially in the Eastern Cape;
 caches of ostrich eggshells or other items;
- hunting blinds;
- evidence for exploitation of raw material souces such as haematite or specularite.

- Sites that will help to clarify the ceramic sequence of the Early Iron Age in the northern and eastern regions of southern Africa;
- any Bambata settlement;
- Early Iron Age sites with evidence for structures or long term occupation;
- sites with evidence for political or social hierarchies;
- evidence of the organization of metal production;
- burials with evidence for social differentiation, health and nutrition;
- evidence for trade within and outside of the Zimbabwe culture area;
- up the culture-historical sequence;
- special-purpose sites such as rainmaking, circumcision, mining, furnaces, cattle posts vs living sites, salt making;
- Blackburn and Moor Park sites in KwaZulu-Natal;
- for evidence of diet and subsistence or stone

- walling;
- any Zimbabwe-style stone walling should be mapped in sufficient detail to estimate factors such as population size and grain-bin variability; evidence for contemporary cultural interaction,
- for example between Khami and Moloko;

 sites with architectural styles and information on
- materials used for housing, even in the recent past;
 evidence for the introduction of maize, either
- direct or in the style of grindstones used;
 sites with botanical remains of cultigens;
- information on the distribution, size and characteristics of dolly-holes for gold mining;
- evidence for textiles or weaving in addition to spindle whorts;
 evidence for games and contextual informa-
- evidence for games and contextual information relating to them;
- figurine caches and spatial relationships to settlements;
- check stone outcrops near stonewalled sites for engravings.

Historical / Colonial

- sites connected with whaling and sealing.
- ships or ship/boat structures on land.
- shipwreck survivor camps;
- sites in the interior with nineteenth century ceramics (RESUNACT is preparing guidelines for identification);
- single occupation sites in urban environments with deposits such as wells, cisterns and depressions;
- 17th century or early 18th century sites in Cape Town;
- sites that are connected with national and international slave trade routes;
- LSA sites with metal items such as brass buttons;

- documentary and archival searches should be done before going into the field;
- sites that could inform on the effects of military forces on indigenous local populations;
- the symbolic significance of textiles, beads and other items imported by traders;
- sites with oral traditions of sacred significance oral histories increase significance and are therefore relevant to archaeology;
- historical graves need sensitive removal during mitigation and this is often best done in collaboration between archaeologists and funeral specialists.